

EYDEL'NANT, L.B., inzh.; TIKHOMIROV, M.Ye., starshiy inzh.-metodist, otv. za vypusk; GROSFATER, B.B., red.

[Equipment for the petrochemical industry and oil and gas refineries; program and tests for correspondence technical school courses "Installation and maintenance of industrial equipment"] Metodicheskii kabinet. Oborudovanie predpriiatii neftegazopererabatyvaiushchei i neftekhimicheskoi promyshlennosti; programma i kontrol'nye raboty dlia zaochnogo obuchenii po spetsial'nosti tekhnikumov "Montazh i remont promyshlennogo oborudovaniia." Moskva, 1959. 14 p. (MIRA 15:2)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Upravleniye kadrov. Metodicheskiy kabinet. (Petroleum refineries—Equipment and supplies)

(Chemicals industry—Equipment and supplies)

VERVEYKINA, A.K., inzh.; KOLCHINSKIY, Yu.L., inzh.; NIKOLAYEVSKIY, Ye.Ye., inzh.; RODIONOVA, R.G., inzh.; RYAPOLOV, A.F., inzh.; SOKOL, I.A., inzh.; STERLIN, S.L., inzh.; EYDEL'NANT, L.B., inzh.; ORLOV, V.M., kand. tekhn. nauk, retsenzent; YURGEL', B.I., inzh., retsenzent; FOKIN, V.Ya., inzh., nauchn. red.; VOLNYANSKIY, A.K., glav. red.; SUDAKOV, G.G., zam. glav. red.; IOSELOVSKIY, I.V., red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.; ONKIN, A.K., red.; STAROVEROV, I.G., red.; TUSHNYAKOV, M.D., red.; CHERNOV, A.V., red.

[Engineering pipelines for industrial enterprises] Tekhnologicheskie truboprovody promyshlennykh predpriiatii. Moskva, Stroiizdat, 1964. 2 v. (MIRA 17:12)

VERVEYKINA, A.K., inzh.; KOLCHINSKIY, Yu.L., inzh.; NIKOLAYEVSKIY,
Ye.Ya., inzh.; RODIONOVA, R.G., inzh.; RYAPOLOV, A.F., inzh.;
SOKOL, I.A., inzh.; STERLIN. S.L., inzh.; ETDEL'NANT, L.B.,
inzh.; ORLOV, V.M., kand. tekhn. nauk retsenzant; YURGEL', B.I.,
inzh.; retsenzent; FOKIN, V.Ya., inzh., red.; VOLNYANSKIY, A.K.
red.; MARKOV, I.I., red.; MEL'NIK, V.I., red.; ONKIN, A.K.,
red.; STAROVEROV, I.G., red.; IUSHNYAKOV, M.D., red.; CHERNOV,
A.V., red.; SUDAKOV, G.C., red.; IOSELOVSKIY, I.V., red.

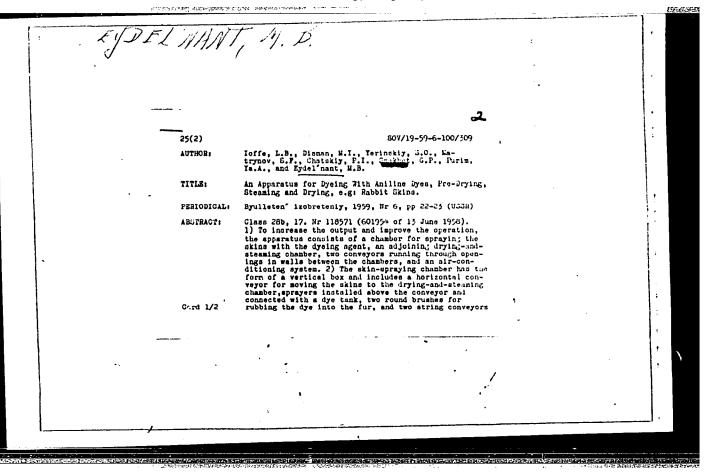
[Technological pipings in industrial enterprises] Tekhnologicheskie truboprovody promyshlomnykh predpriiatii. Moskva,
Stroiizdat. Pt.l. 1964. 784 p. (MIRA 18:9)

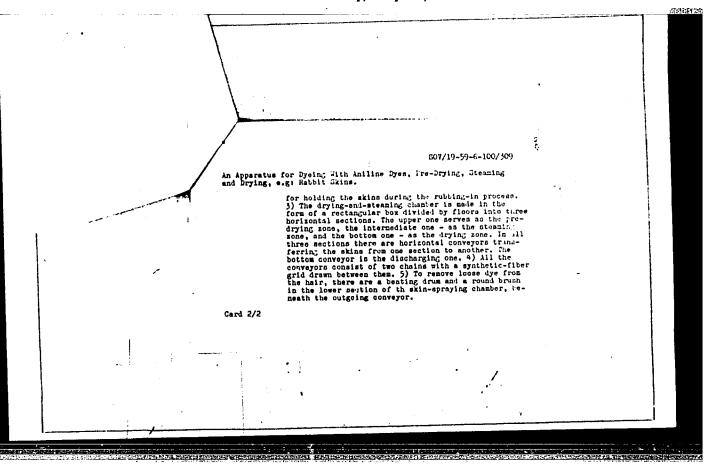
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Quality improvement of industrial construction-project blueprints. Stroi. prom. 31 no.6:22-23 Je '53. (MIRA 6:7)

(Building--Drawing) (Metallurgical plants)





EYDEC 'NANT, M. I.

Schetnyye tablitsy dlya deleniya lyubogo chisla na lyuboye s tochnost'yu do 5 znachashchikh tsifr s prilozheniyem tablits popravok. Tashkent, NIKHI (1930), 1-193.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Markushevich, A.I.
Rashevskiy, P.K.
Moscow-Leningrad, 1948

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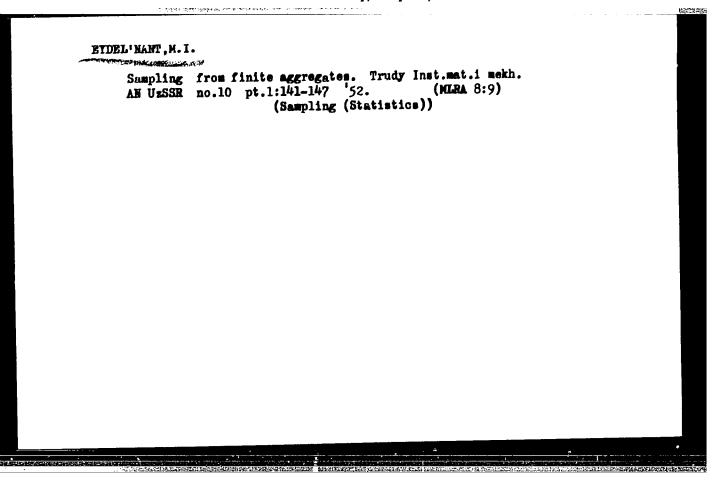
EYDEL'HAND, M.I.

2817)

Vtoroe Vsesoyuznoe seveschanie po matematicheskoy statistike. (Tashkent, Sent. 1948g) Ižvestiya Akad Nauk. Uz.S.S.R., 1949, 32, s. 115-18.

EXDEL HANT, M.I. The second Allumion conference regarding mathematical statistic. ((City of) Tashkent, September, 1948 year. Information of the Academy of Science. Uz. S.S.R., 1949-2, page 115-18.

SO. LETOPIS NO. 34



EYDEL'NANT, M. I.

Semistatistical Correlation

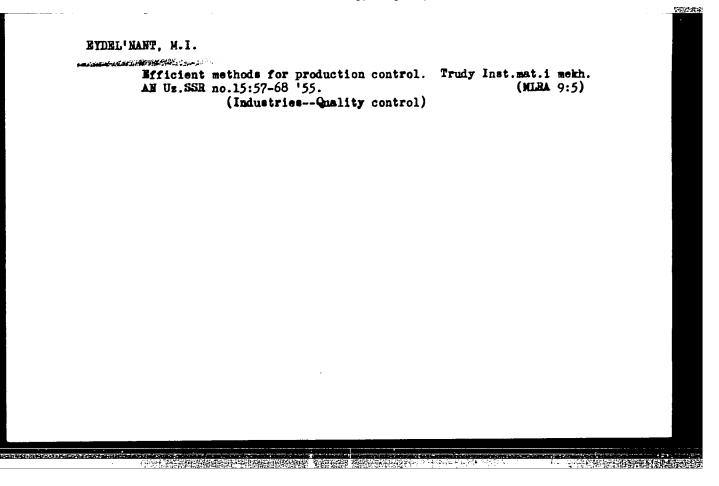
Tr. In-ta matem. i. mekham. AN Usbek. SSr. No 11, 1953, pp 29-51

The author studies the dependence of a random quantity which is expressed as the sum of a series of products of two functions, one of random quantities and the other of nonrandom quantities. Methods of the theory of correlation are applied to the problem. The abstractor, formulations in the work. (RZhMat, No 5, 1955)

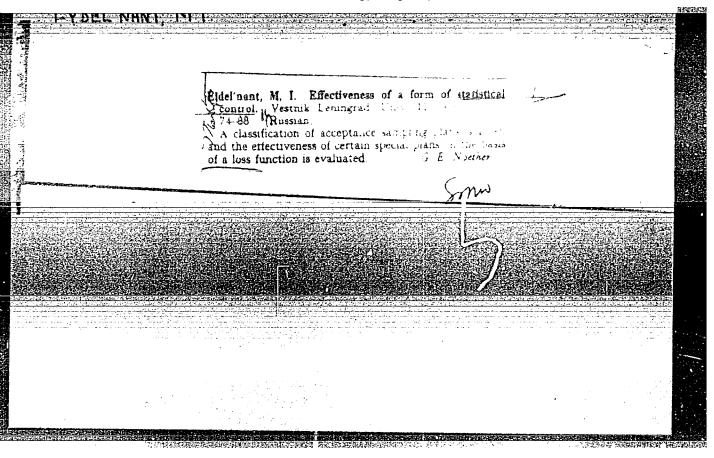
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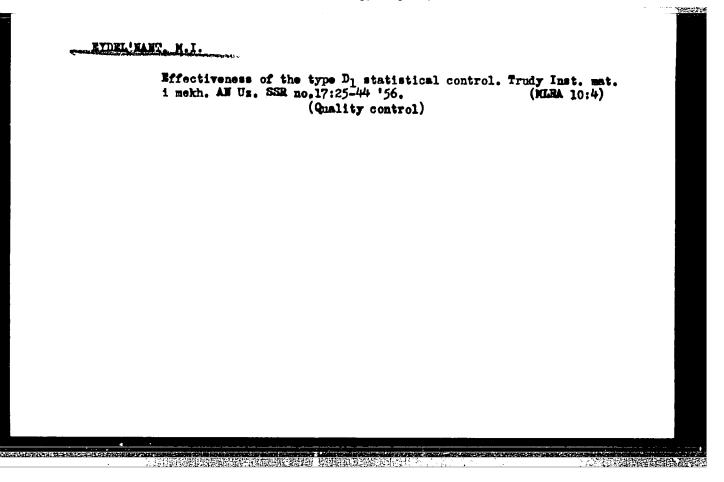
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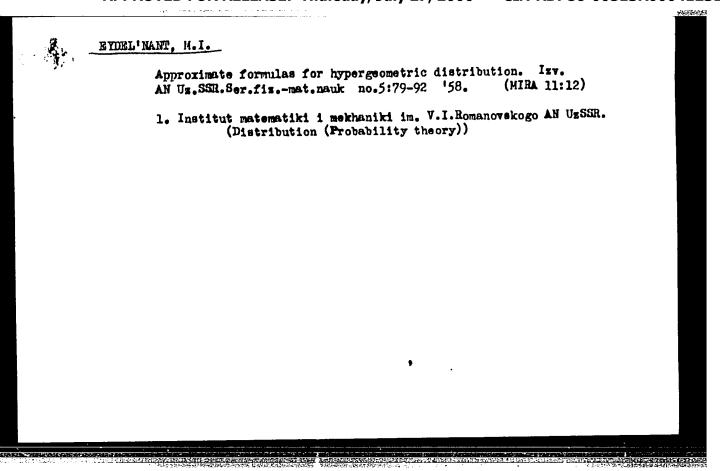
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EYPEL NANT, M. I. Call Nr: AF 1108825 Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. J. Sect Retruction of the Statistical Theory of Nonstationary Systems Based on Probability Methods. Mention is made of Khinchin, A. Ya. Statulyavichus, V. A. (Leningrad). Theorem of Nonhomogenous 131-132 Markov Chains. Tumanyan, S. Kh. (Yerevan). On the Capacity of χ^2 Test in Relation to "Close" Alternatives. 132 Eydel nant, M. I. (Tashkent). Application of the Theory of Decision Functions for Designing Standard Plans of 132 Acceptance Control. Mention is made of Kolmogorov, A. N. Card 42/80







"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231

sov/166-59-2-11/11 16(1),16(2),7(7) Eydel'nant, M.I. The Book of P.P.Mesyatsev "Application of the Theory of AUTHOR: Probability and Mathematical Statistics for the Construction and TITLE: Iniga P.P. Mesyatseva "Primene-Production o Radio Equipment" niye teorii veroyatnostey i matematicheskoy statistiki pri konstruirovanii i proizvodstve radioapparatury") PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fizikomatematicheskikh nauk, 1959, Nr 2, pp 88-91 (USSR) This is an adverse criticism of the reviewed book, published in 1958 in Moscow. The reviewer says that almost the whole ABSTRACT: book consists only of errors. Card 1/1

16.610

5/044/62/000/010/017/042 B166/B102

AUTHORS:

Sirazhdinov, S. Kh., Eydel'nant, M. I.

TITLE:

Contribution to the problem of estimates of product quality

from the results of sampling

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1962, 17, abstract 10V85 (Tr. In-ta matem. AN UZSSR, no. 22, 1961, 135 - 145)

TEXT: There are S batches of articles with known sizes N and with an unknown number $\mathbf{D}_{\hat{\mathbf{I}}}$ of defective articles among them. From each batch random samples of size n_i including a number d_i of defective articles are taken. A decisive rule is applied: (1) if $d_i \ge c'$, then all articles which did not fall into the sample are rejected without checking; (2) if $c \le d_i \le c'$ a 100% check is made; (3) if disc all articles which did not fall into the sample are accepted without checking. Let N'(D') be the number of articles (defective articles) rejected without checking, N"(D") the number of Card 1/2

Contribution to the problem...

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checked articles (defective articles), N"'(D"') the number of articles (defective articles) accepted without checking. N = N' + N" + N"', D = D' + D" + D"'. Unbiased estimates are given in the article for quantities D, D' and D"'. Estimates are considerably simplified if a check is made on one more (n + 1)-th randomly selected article. Unlike in other papers (RZhMat, 1956, 5999; 1958, 2245; 1960, 8077) the formulas obtained in this paper are valid with any $q = \frac{D}{N}$ and $\lambda = \frac{n}{N}$. Abstracter's note:

Card 2/2

ROMANOVSKIY, V.I., akademik; SARYMSAKOV, T.A., akademik, otv. red.;
DIVEYEV, R.Kh., red.; MAGAYEV, S.V., red.; MALEVICH, T.L.,
red.; RONZHIN, V.I., red.; EYDEL'NANT, M.I., red.;
KISELEVA, V.N., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Mathematical statistics] Matematicheskaia statistika.
Tashkent, Izd-vo Akad. nauk UzSSR, Book 2. [Operational
methods of mathematical statistics] Operativnye metody matematicheskoi statistiki. 1963. 794 p. (MIRA 16:5)

1. Akademiya nauk Usbekskoy SSR (for Romanovskiy, Sarymsakov).
2. Otdel teorii veroyatnostey i matematicheskoy statistiki
Instituta matematiki im. V.I.Romanovskogo Akademii nauk Uzbekskoy SSR (for Diveyev, Nagayev, Malevich).

(Mathematical statistics)

7.	Mitrofanova, N. M. On a Nonparametric Problem of Mahalanobis 44	09
78.	Stratonovich, R. L. On the Final Probabilities of Continuous Conditional Markov Processes 4:	11
79•	Tests in the Monte Carlo Method for Obtaining Smooth	25
30.	Eydel'nant, M. I. On the Publication of Tables of a Hypergeometric Distribution 4	39
	SYMPOSIUM ON DISTRIBUTIONS IN INFINITE-DIMENSIONAL SPACES.	
31.	Polishchuk, Ye. M. Normal Distribution and Laplace and Poisson Equations in a Hilbert Space	43
32.	Sazonov, V. V. Some Remarks on Characteristic Functionals of Generalized Measures	49

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ACCESSION NR: AT5004663

s/3129/64/000/001/0048/0057

AUTHORS: Eydel nant, M. I.; Inamov, I.

. B+1

TITLE: Practical application of estimators for analyzing results of statistical quality control

SCURCE: AN UZSSR. Institut matematiki. Teoriya veroyatnostey i matematicheskaya statistika, no. 1, 1964, 48-57

TOPIC TAGS: quality control, statistical analysis

ABSTRACT: The authors give solutions to problems posed in a paper by I. Inamov (Otsenka rezul'tatov kontrolya, provodimogo po planam $D_1(n;c)$ (publikyyetsya v nastoyashchem sbornike)), for plans $D_1(n;0)$ usually applied in practice. All

definitions and notations are taken directly from the above reference. Orig. art. has: 10 tables and 11 formulas.

ASSOCIATION: Institut matematiki, AN UzSSR (Institute of Mathematics, AN UzSSR)

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SUB CODE: MA

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Card 1/1

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15.8109

Mikhaylov, G. P., Eydel'nant, M. P.

TITLE:

AUTHORS:

The Effect of the Polyester Structure on the Temperature

Range of the Maximum of the Dielectric Losses

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 10,

pp. 1548-1551

TEXT: A previous paper (Ref. 1) has dealt with the investigation of the dielectric constant and the tanó of the dielectric losses on various polyesters. In this connection, two types of losses were found to exist dipole-elastic (de) and dipole-radical (dr) losses, both caused by the relaxation of the COO group. Aim of this study is to confirm the assumption that an increase of the number of methylene groups in the alcohol of the ester exerts less influence upon the temperature of the dr losses than the increase of the methylene groups in the acid. Tanó was measured by the method described in Ref. 1 for hexamethylene terephthalate (6MT) and decamethylene terephthalate (10MT) at 1000 cps. The two substances were investigated both in elastic form, pressed from powder, and in rigid, Card 1/4

The Effect of the Polyester Structure on the S/190/60/002/010/023/026/XX Temperature Range of the Maximum of the B004/B064
Dielectric Losses

crystalline form, precipitated from solution. Two maxima of $\tan \delta$ occurred as is shown in Fig. 1. The maximum at lower temperature is ascribed to the dr losses, that at higher temperature to the de losses. From the equation $\log f_{\rm max} = \mathcal{S}(1/T_{\rm max})$ (f = frequency, T = temperature) the activation energy of the dr losses was determined for 6MT to be 12, for 10MT to be 11.5 kcal/mole. A comparison with previously (Refs. 1-4) obtained data for ethylene glycol-, hexamethylene glycol-, decamethylene glycol esters of terephthalic-, adipic-, and sebacic acid led to the following conclusions: 1) the temperature range of the $\tan \delta_{\rm max}$ of the dielectric losses of polyesters depends linearly on the concentration of aromatic cycles in the chain of the macromolecule. There is no difference whether the concentration of the aromatic cycles changes in the alcohol or in the acid of the polyester. 2) The temperature range of the $\tan \delta_{\rm max}$ of the dr losses depends on the structure of the acid. For the polyesters of aromatic acids the temperature of $\tan \delta_{\rm max}$ is higher than for the polyesters of aliphatic acids.

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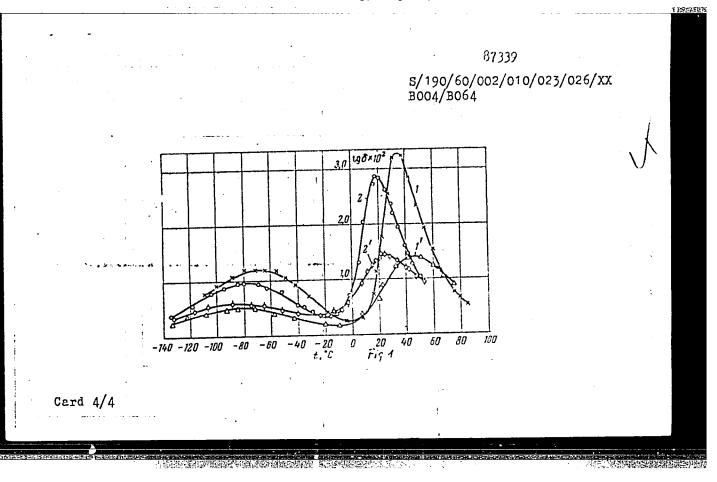
s/190/60/002/010/023/016/XX The Effect of the Polyester Structure on the Temperature Range of the Maximum of the B004/B064 Dielectric Losses

Legend to Fig. 1: The function $tan \delta = o(t)$ for polyesters of different crystallinity at 1000 cps. 1: 6MT pressed, 11: 6MT obtained from solution, 2: 10MT pressed, 21: 10MT obtained from solution. There are 4 figures, 1 table, and 4 Soviet references.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute imeni M. I. Kalinin)

SUBMITTED:

June 3, 1960



24.7800 1144, 1147, 1145

S/190/60/002/010/024/026/XX B004/B064

15.8109

Card 1/2

AUTHORS: Mikhaylov, G. P., Eydel'nant. M. P.

TITLE: Study of the Dielectric Losses of Polyethers

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 10,

pp. 1552-1556

TEXT: In continuation of previous papers (Refs. 1-3), which have dealt with the dielectric losses of polyesters, this paper discusses the investigation of the dielectric losses of polyethers: polyxylylene oxide and polyoxymethylene. Polyxylylene oxide was placed at the authors' disposal by oxymethylene. Polyxylylene oxide was placed at the authors' disposal by oxymethylene. Polyxylylene oxide was placed at the authors' disposal by oxymethylene collaborator of the IVS AN SSSR (Institute of Macromolecular Compounds of the AS USSR), polyoxymethylene by G. P. Nosov, scientific collaborator of the NIIPM (Scientific Research Institute of Plastics). Tan & was measured by the method described in Ref. 1. The following results were obtained: Two overlapping maxima of the dielectric lowing results were obtained: Two overlapping maxima of the dielectric losses, i.e. dipole-elastic- and dipole-radical losses were observed with polyoxymethylene at -60°C. With polyxylylene oxide three maxima occur: a) at -112°C and a weaker one at -60°C (dipole-radical losses), and an

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Study of the Dielectric Losses of Polyethers S/190/60/002/010/024/026/XX B004/B064

intensive maximum at +10°C (dipole-elastic losses). The same laws as hold for the polyesters were observed: a) introduction of aromatic cycles increases the temperature of the $\tan\delta$ of the dipole-elastic losses;

b) the temperature of the tan & of the dipole-radical losses depends only on the mobility of the polar group (O in the case of ethers, CO in the case of esters). The dipole-radical losses are caused by the relaxation of the ether group, the dipole-elastic losses by the motion of segments of the molecular chain. There are 3 figures and 5 references: 4 Soviet and 1 German.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute imeni M. I. Kalinin)

SUBMITTED: June 3, 1960

Card 2/2

MIKHAYLOV, G.P.; EYDEL'NANT, M.P. Dielectric properties of a series of polyesters with aromatic nuclei in their chains. Vysokom. soed. 2 no.2:287-294 F '60.

(MIRA 13:11)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. (Polymers-Electric properties)

MIKHAYLOV, G.P.; EYDEL'NANT, M.P.

Temperature-frequency relationships of the angle of dielectric losses of mixed polyesters. Vysokom. soed. 2 no.2:295-302 F '60.

(MIRA 13:11)

1. Leningradskiy politekhnicheskiy institut im.M.I.Kalinina. (Polymers)

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AUTHORS:

Sazhin, B. I., Eydel'nant, M. P.

TITLE:

Study of the electrical conductivity of polymers IV. Influence of dipole polarization (polystyrene, poly-p-chlorostyrene, copolymer from styrene and acrylo-nitrile)

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 5, 1961, 761-767

TEXT: Recently, one uses increasingly measurements of electrical conductivity for investigating the dipole polarization of polymers, since in the range of the polarization phenomena the specific volume resistance $\gamma_{\rm V}$ de-

pends on the time of stress and on the temperature. The phenomenological theory (Ref. 2: B. V. Hamon, Proc. Instn. electr. Engr., 99, IV, 151, 1952) expresses the relation of γ measured at the moment τ (the frequency of the

alternating field being $0.1/\tau$) to the dielectric factor of loss ε ". In order to ascertain the applicability of this theory for polymers, the ε "-values thus obtained from the frequency f (range from 10 to 10^{-5} ops) and $\gamma_{\rm V}$ are compared with the experimental results. The authors studied Card 1/10

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Study of the electrical...

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the influence of dipole polarization on the conductivity of polystyrene (PS), poly-p-chlorostyrene (PPCS), and the styrene copolymer of acrylonitrile (ratio = 72 : 28) CH-28 (SN-28) as well as the applicability of the phenomenological theory for the determination of \mathcal{E} " at low frequencies from data obtained with direct current. Technically pure specimens of PS, PPCS, and SN-28 (disks of 0.5 to 2 mm thickness and 50 to 100 mm radius) were pressed at a temperature surpassing the vitrification temperature $T_{\rm v}$ by 80°C. Al foils of 0.055 mm thickness pressed on to the specimens served as electrodes. The specimen was heated to $T_{\rm v}$ + 30°C. The following instruments were used for measuring the dielectric constant (\mathcal{E}) and the dielectric loss (tan \mathcal{E}): 1) at 50 cps, the high-voltage bridge P-525 (R-525); 2) from 400 to 10⁴ cps, the MJE-1 (MLYe-1) bridge; 3) from 6·10⁴ to 1.5·10⁶ cps, the KB-1 (KV-1) cps-coulometer. The charge currents were measured at τ = 10 to 1200 sec based on the method described in Ref. 3 (B. I. Sashin et al.: Vysokomolek. soyed., 2, 1535, 1960). For measurements from 10 msec to 10 sec, the circuit of Fig. 1 was used. The relay P and a special oscilloscope (MNO-2) (MPO-2) type IX synchronized the power supply

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Study of the electrical...

to the specimen and the current recording. The total sensitivity amounted to $3.6\cdot 10^{-3}$, the current sensitivity to $3.6\cdot 10^{-3}/R_{st}$, where R_{st} is the standard resistance of the tregohmmeter MOM-4 (MOM-4) charging the specimen, which has been determined according to $\tau \geqslant 100$ nP $_{st}$ C/P. n is the exponent of the Curie formula: $i = i_0 \tau^{-n}$; P = limit of error, π ; $\tau = limit$ of error, $\tau = limit$ error $\tau = limit$ of error, $\tau = limit$ error $\tau = limit$ error

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Card 3/10

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Study of the electrical ...

ture than in section I, but independent of τ (section III). Analogous conditions hold for polyvinyl acetate, poly-tri-fluoro chloro ethylene and polyvinyl chloride masticated rubber. In sections I and II, β_V is strongly influenced by polarization. This is proved by the strong dependence of β_V on τ and by the reduced current strength as compared to the value at the beginning of the experiment. The minimum β_V in section II is related to the dipole polarization effecting the so-called "dipole electric losses" in alternating fields. In section III, β_V is determined by the ionic conductivity; this is proved by studies of the influence exerted by admixtures and electrical purification on the conductivity. The product $n_0 \mu^2$ (n_0 = number of polar groups per cm³ and μ_{ef} = their effective dipole moment) increases from PS to PPCS and SN-28. Therefore, the dielectric losses and the influence of dipole polarization on β_V increase near T_V . For τ = 15, in the minimum range β_V amounts for PS to 2.5·10¹⁶, for PPCS to 6·10¹⁴, and for SN-28 to 2·10¹⁴ ohm cm. ε " is obcard 4/10

5/190/61/003/005/017/015 B110/B220 Study of the electrical... tained from Q, according to formula (1). Contrary to other polymers, $\mathcal{L}_{\mathbf{v}}$ for PS, PPCS, and SN-28 between 100 and 1500 $_{
m V}$ is independent of the voltage applied to the specimen. Fig. 3a shows the logarithm of the charge current (black points) and of the discharge current (clear circles) as a function of logarithm T at various temperatures. In the first interval of arphi, arphi'' is considerably influenced by polymerization, in the second, by the ionic conductivity. The maxima of 6" of curve 35 for SN-28 between 100 and 130°C and of curve 3b for PPCS between 120 and 170°C are equal for 10 and 50 cps so that they may be used for the quantitative determination of the dipole electric losses. At low frequencies (Fig. 4), there occur additional losses due to the ionic conductivity besides the dipole electric losses. The function $\xi'' = \varphi(\log f)$ represented in Fig. 6a is remarkable because of its asymmetry in the entire temperature range measured (138 to 173°C), which agrees with the values found for halostyrenes and may be due to the overlapping of two relaxation processes. The mechanical losses near T_{v} found for PPCS, other styrenes, and their derivatives may be due There are 6 figure and 14 references to mobile side raticals at T < T $_{\rm c}$. Card 5/10

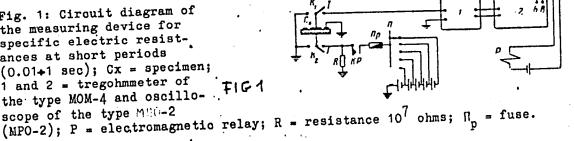
Study of the electrical...

7 Soviet-bloc and 7 non-Soviet-bloc. The two references to Englishlanguage publications read as follows: Ref. 13: S. Saito et al. J. Appl. Polymer. Sci., 2, 93, 1959. Ref. 14: K. H. Illers et al. Rheol. Acta, 1, 322, 1958, J. Polymer Sci., 41, 528, 1959.

ASSOCIATION: Nauchno-issledovatel'skiy polimerizatsionnykh plastmass (Scientific Research Institute of Polymer Plastics)

September 5, 1960 SUBMITTED:

Fig. 1: Circuit diagram of the measuring device for specific electric resistances at short periods (0.01+1 sec); Cx = specimen;1 and 2 = tregohmmeter of the type MOM-4 and oscilloscope of the type Milli-2



Card 6/10

EYDEL! NANT, M. P.

Dissertation defended for the degree of <u>Candidate of Physicomathematical</u>
<u>Sciences</u> at the Institute of High-Molecular Compounds in 1962:

"Investigation Using a Dielectric Method of the Effect of Complex Aromatic Polyesters on Molecular Relaxation."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

5/190/62/004/004/014/019 B117/B138

AUTHORS:

Sazhin, B. I., Eydel'nant, M. P.

TITLE:

The electric conductivity of polymers. V. Polycarbonate, polyethylene terephthalate, mixed polyester, poly-oxy-

methylene

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962,

583-590

The dependence of volume resistivity $(\beta_{_{\mathbf{V}}})$ on temperature (from -180 to $+200^{\circ}$ C) and on the duration of the charge (T = 0.01 - 1200 sec) was studied with crystalline polyesters, for which dipole-elastic and dipoleradical polarization is characteristic: polycarbonate (PK), polyethylene terephthalate (PET), mixed polyester TC3-80(TSE-80) from terephthalic acid, sebacic acid and ethylene glycol as well as poly-oxymethylene (POM). It was found that in the vicinity of the brittle temperature the volume resistivity of the polymers investigated is determined by the dipole-elastic polarization and conductance. For T $\langle T_{br}, \beta_v \rangle$ changes only slightly with the temperature and much depends on τ , i. e., β_v as a function of t and t essentially depends Card 1/3

S/190/62/004/004/014/019 B117/B138

The electric conductivity of ...

on the appearance of dipole-radical polarization. It was shown that, for all polymers investigated the values of $\beta_{\mathbf{v}}$ above a certain temperature T₁ (for $\widetilde{\iota}$) 14 sec) are independent of $\widetilde{\iota}$ and are determined by the conductance. For PK and PET it was found that their β_{v} values decrease: in this range, during transition from glowed to quenched samples, by 1-3 orders of magnitude, and in the range of the appearance of dipole-elastic polarization to about one fifth. Thus, the conductance of PK and PET is much reduced during crystallization. For TSE-80 and POM, where various types of dipole losses are superimposed, the quantity of the imaginary part of the dielectric constant (2") was determined from $\psi_{\mathbf{v}}(\mathcal{C}=1~\text{sec})$ on the basis of the theory of dielectric losses. The dependences E" - T were shown to take a different course for f = 0.1 cycle than for 20 kilocycles. The maximum appearing at -100° C (f = 0.1 cycle) was asymmetric, while a symmetric maximum was observed at -50°C (20 kilocycles). This change of the E" - T curve is probably connected with two relaxation processes with different activation energy, which determine the losses observed for TSE-80 and POM at low temperatures. Processes with a shorter probable relaxation time also have a lower activation energy. The two loss maxima can be observed only on low Card 2/3

S/190/62/004/004/014/019 B117/B138

The electric conductivity of ...

frequencies, since with a temperature increase the difference between the probable relaxation times gets smaller and smaller. There are 5 figures and 1 table.

Nauchno-issledovatel'skiy institut polimerizatsionnykh ASSOCIATION:

plastmass (Scientific Research Institute of Polymerization

Plastics)

March 20, 1961 SUBMITTED:

Card 3/3

EUZIMINA, S.V.; MEGATFV, G.A.; SAZHIN, S.J.; FYDELIMANT, E.P.

Use of the method & electroconductivity measurement for studying the kinetics of the block polymerization of styrene. Plast. massy (MIRA 18:6)

L 21998-66 EWT(m)/EWP(j) WW/HM

ACCESSION NR: AP5024502

UR/0191/65/000/010/0025/0027

678. 644'142, 01:537, 226

AUTHOR: Sazhin, B. I.; Eydel'nant, M. P.; Belosludtseva, Ye. I.; Cherkanov,

S. P.; Grebenshchikova, V. A.

TITLE: Dielectric properties of polypropylene oxide

SOURCE: Plasticheskiye massy, no. 10, 1965, 25-27

TOPIC TAGS: polymer, electric property, dielectric permeability, specific resistance, dielectric loss, crystalline polymer, amorphous polymer, dielectric property.

ABSTRACT: The electric properties of polypropylene oxide (PPO) were investigated in the absence of literature data. The dielectric permeability and the tangent of the angle of dielectric loss were determined in the -120 to -80 C temperature range at frequencies from 10⁻¹ to 10⁶ cycles/sec for samples having different degrees of crystallinity. Maximum dielectric permeability and dielectric losses were observed in the -70 to -20 C temperature range at all frequencies. These values decreased with increase in polymer crystallinity. From the apparent energy of activation calculated for the 10²-10⁵ cycles/sec range, 41 kcal/mol Card 1/2

L 21998-66

ACCESSION NR: AP5024502

the losses are of the dipole-elastic type. The maximum temperatures for the dielectric and mechanical losses are both about -65C, indicating the same mechanism, that is, segmentary movement of macromolecules in the amorphous region. The extent of the contribution to static dielectric permeability introduced by dipole-elastic polarization decrease: as the degree of crystallinity increases. At room temperature, dielectric permeability values decrease and resistivity increases as the crystallinity of the PPO is increased. "X-ray determinations of the degree of crystallization were determined by M. A. Martynov." Orig. art. has: 4 figures, 1 table and 4 equations.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: 07, 20

NR REF SOV: 002

OTHER: 004

Card 2/2 BK

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

EYDEL'NANT, N.L.; RUBINA, S.I.; SMOLYANITSKIY, V.Z.; SEREBRYAKOVA, V.L.;

PLUNGIAN, L.V.; DASHKEVICH, V.S.; Prinimali uchastiye:

PESCHANSKAYA, R.Ya.; LEVINA, A.Yu.; GOL'UBREYKH, I.Ye.;

SHCHERBAKOVA, L.P.; PAPULOVA, P.A.

Activated kailin and its use in rubber compounding. Kauch. i rez. 20 no.9:46-49 S '61. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut rezi novykh i lateksnykh izdeliy, Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh materialov i iskusstvennoy kuzhi i zavod "Sangigiyena".

(Kaolin)

(Rubber, Synthetic)

PESCHANSKAYA, R.Ya.; EYDEL'NANT, N.A.; ZEL'DICH, E.1.; KHASCWOKAYA, A.M.

Diatomite and its use in the formulae for rubber foctmear. Kauch.
i rez. 24 no.5:20-22 My '65. (MERA 18:9)

1. Nauchno-isoledovatel'skiy institus rezinczykh i latekarykh izdelly.

PESCHANSKAYA R.Ya. FYDEL NANT, N.I. SMOLYANITSKIY, V.Z. GERSHENOVICH, A.I. STEFANOVICH, V.V. GAL'ERAYKH, I.YG. ALEKSEYEVA, N.A. TIKHONOVA, Zh.I.

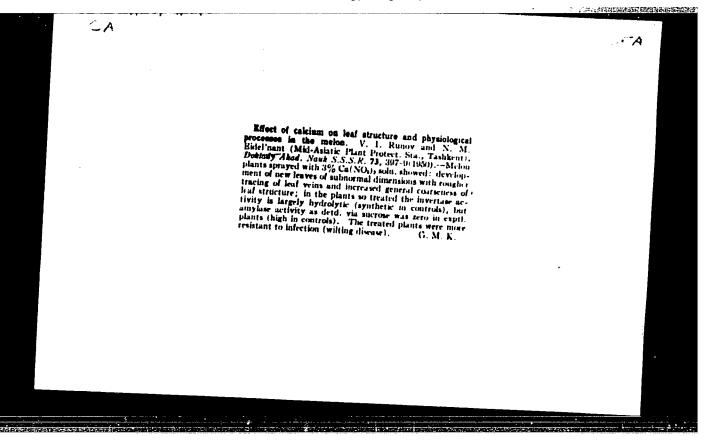
Use of parealkylbenzyl pyridinium chloride as volcanization accelerator of rubber compounds. Kauch. 1 rez. 24 no.10:27-29
165. (MJPA 18:10)

1. Nauchno-issledovatel skiy institut rezincvykh i lateksnykb izdeliy i Zavod "Krasnyy treugol nik".

AUTHORS: Silonova	, M. S.; Trofimovich, D. P.; Pescha	inekaya, R. Ya.; Eydel'nant.	
N. L.; Gorelik, Y	8. A. 44155	36	•
Scientific Researc	obtaining sponge rubber. Class 39, h Institute for Rubber and Latex Prod h i lateksnykh isdeliy)/	No. 175220 (Springuished by	
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	i izobreteniy i tovarnykh znakov, no.		
TOPIC TAGS: rubber	r, sponge, gelatin, gelatinization ag	ent, catapin, latex	
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TOPIC TAGS: rubber ABSTRACT: This Aut from latexes, using the sponge, catapin	r, sponge, gelatin, gelatinization ag thor Certificate presents a method for ng secondary gelatinization agents.	ent, catapin, latex r obtaining sponge rubber To improve the structure of	•
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TOPIC TAGS: rubber ABSTRACT: This Aut from latexes, using the sponge, catapin	thor Certificate presents a method for secondary gelatinization agents.	ent, catapin, latex r obtaining sponge rubber To improve the structure of	
FOPIC TAGS: rubber ABSTRACT: This Aut from latexes, using the sponge, catapin	thor Certificate presents a method for secondary gelatinization agents.	ent, catapin, latex r obtaining sponge rubber To improve the structure of	

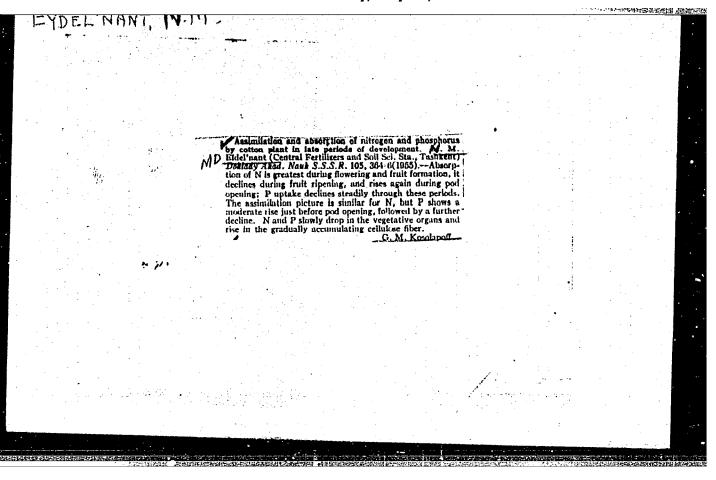
"APPROVED FOR RELEASE: Thursday, July 27, 2000

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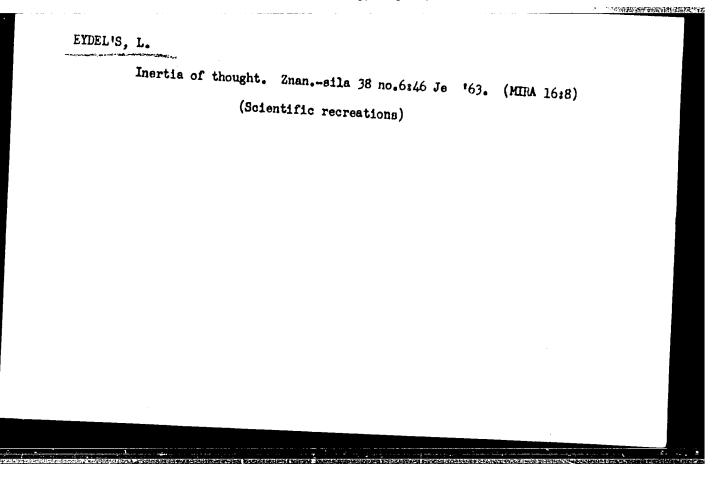
Eydel'nant, N. M. — "Influence of the Conditions of Nitrogenous Mutrition on the Metabolism in the Cotton Flant in the Period of Fruit Formation and Ripening." Min Higher Education USSR, Central Asiatic State U imeni V. I. Lenin, Tashkent, 1955 (Dissertation for the Degree of Candidate in Riological Sciences)

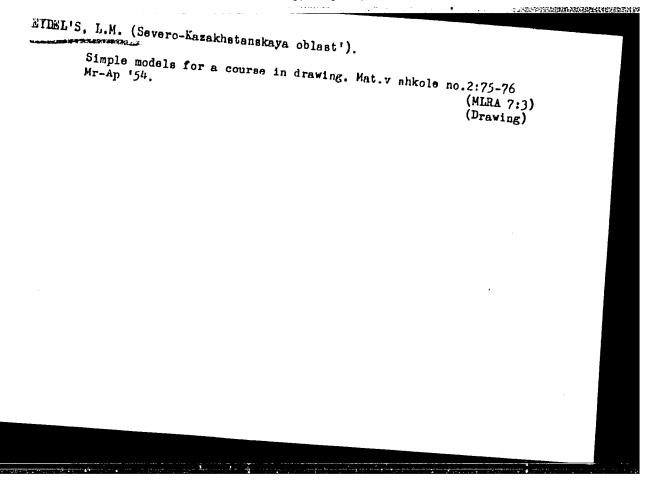
SO: Knizhnaya Letopis', No 24, 11 June 1955, Moscow, Pages 91-104

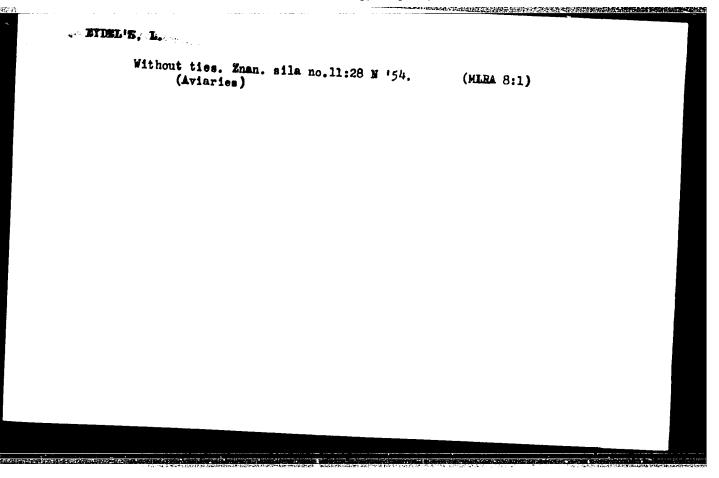


29.12.3 € : 29.24.22.2 : 238 .3008. #	USSR Cultivated Flants. Commercial. Oldiferous. Sugar-Bearing. Left Zhur-Baologaya, No. 5, 1999, No. 20597
grands :	Evdel nant, N.M.
1737 - 1 72746 - 1	The Effect of Late Nitrogen Sidedressing on Cotton Metabolism.
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• • •		Cultivated Flants.		
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EYDEL'S, Leonid Markovich; RODIONOVA, Z.A., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

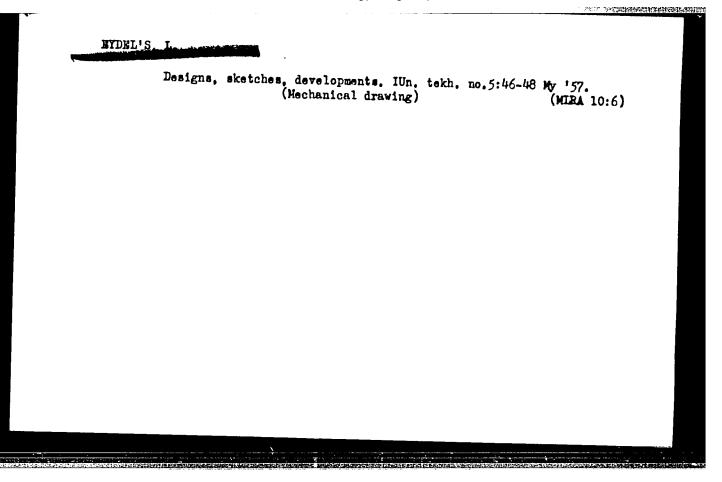
[Equipment for lessons in mechanical drawing and extracurricular work; a manual for teachers] Oborudovanie urokov chercheniia i vneklassnaia rabot; posobie dlia uchitelei. Moskva, Gos. uchebnopedagog. isd-vo Ministerstva prosveshcheniia RSFSR, 1956. 79 p. (Mechanical drawing--Study and teaching)

GOSUDARSKI., Lev Mikhaylovich; KALISHEVSKAYA, Valentine Antonovna;
ZHIRMIN, Yevgeniy Vladimirovich; ETDEL'S, Leonid Marrovich;
GUS'KOV, G., redaktor; GARHEK, V.P., tekhalcheskiy redaktor;
SOKOLOVA, R.Ya., tekhnicheskiy redaktor

[Assignments in drawing] Pourochnye rezrabotki po chercheniiu.
Pod red. L.M.Gosudarskogo. Moskva, Izd-vo Akademii pedagogicheskikh nauk, 1956. 348 p.

(Mechanical drawing)

(Mechanical drawing)



	20	 one in					7: 19-29 J MLRA)	10:7)	
			(Educ:	ation,	Coopera	tive)			

EYDEL SHTEYN, B. M., Cand of Med Sci -- (diss) New surgical method of treating of incomplete bone structure. Sverdlovsk, 1957, 13 pp (Sverdlovsk State Medical Institute), 200 copies (KL, 35-57, 109)

公司公司的国际公司

EYDEL SHTEYN, B.S., inshener.

Precast reinforced concrete in the experimental demonstration construction work of a large-panel apartment house in Leningrad.

Bet. 1 shel.-bet. no.8:271-276 Ag '56. (MLRA 9:10)

(Leningrad--Apartment houses) (Precast concrete construction)

22631

12.9100

S/118/61/000/001/003/005 A161/A133

AUTHORS: Yudin, N.P., Eydel'shteyn, I.A., Zeifert, V.P., Engineers

TITLE: Drifting combine "Karaganda - 1M"

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, no. 1, 1961, 43-45

TEXT: The combine has been designed by the Karagandinskiy nauchno-issledo-vatel'skiy ugol'nyy institut (Karaganda Scientific Research Institute of Coal) and the first unit was built at the Temir-Tauskiy liteyno-mekhanicheskiy zavod (Temir-Tau Foundry and Machine Plant). The "Karaganda-1" is intended for the drifting of horizontal and sloping (up to 1120) preparatory workings with 4.32 m² cross section area in coal and rocks of moderate hardness. It cuts coal (or rocks), removes it from the face and loads it on a reloader and CMP-11 (SKR-11) scraper chain conveyers. The work tools are a drill and a crown, and two cutting disks with replaceable cutting bits. The disks are rotating about the main machine shaft and at the same time on their

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Drifting combine "Karaganda - 1M"

S/118/61/000/001/003/005 A161/A133

shafts in the opposite sense. They throw the loosened mass to the shield behind, or load it on a conveyer located on the lower part of the combine when passing the bottom side of the face. The working cut by the disks is round, 2.3 m in diameter. The berm milling cutters of the combine give the finished working and arched shape and at the same time move loose mass from the side walls to the conveyer on the combine. The work side of the conveyer is on the bottom, and its chain drives the berm milling cutters. The caterpillar, electric system and hydraulic system (slightly changed) are from the TKF-3 (PKG-3) combine. A centrifugal fan on the combine sucks off the dusty air from the working space. Propping is possible only behind the combine, and the driver is protected by a special shield. The technical data of the combine are: Work disks diameter - 1,000 mm; they are rotating at 47.3 -106.48 rpm; the number of bits on one disk is 24, 12 and 6; the disk carrier operates with 2.85 rpm; the maximum diameter of the drill is 600 mm and the rotation velocity is 45.6 - 112 rpm; the macimum crown diameter is 130 mm and the rotation speed is 169.4 - 426 rpm; hourly power of the electric motor is 65 kw, the continuous power is 28.5 kw, the armature rotation speed is 1,460 rpm. The scraper conveyer is driven by a 29 kw motor, the caterpillar by two 8 kw motors with 980 rpm. The work speed is 3.34, 4.27 and 6.01 Card 2/6

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Drifting combine "Karaganda - 1M"

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m/h; maneuvering speed 68.4, 86.5 and 124.9 m/h. The 650 mm diameter berm cutters are rotating at 52 rpm. The loading scraper conveyer works with 1.27 m/sec chain speed. The total length of the combine is 6,800 mm, width over the caterpillar chains 1,860 mm, weight 17 ton. It has been tested in drifting the west airway in the No. 120 mine of the "Saran'ugol'" coal trust, dangerous because of explosive coal dust, in the "Verkhnyaya Marianna" seam of varying thickness between 4.6 and 6.8 m. The seam is disturbed, includes many imbedded clay and shale layers and slopes 16-28°. The coal was transported by up to 13 SKR-11 conveyers to 1 km distance. The work face was sprinkled by an OH-2 (ON-2) pump through metal pipes and hoses from 1 km distance. A schematic drawing of the combine in the drift is included (Fig. 2). The operating team consisted of the combine driver and 3-4 assistants installing permanent propping, working with the conveyers and bringing materials, one combine mechanic, 2-3 repair mechanics and 2-3 girls attending the conveyer lines. The highest drifting speed achieved per shift was 15 m, the average (minus downtime) was 3.2 m/h. The "Karaganda-1M" proved considerably more efficient than the PKG-3 combine with THIN-30 (GNL-30) loader. The exhaust system of the combine reduced the dust content of the air to $40-88 \, \text{mg/}$ m^3 (comparing to 102-130 mg/m³ without exhausting) at an airway length of

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Drifting combine "Karaganda - 1M"

S/118/61/000/001/003/005 A161/A133

500 m. At 100-150 m ventilated section length and 0.6 m/sec air flow, without the dust exhaust, the dust content was 40-70 mg/m³, or 20-25 times less than with the MK-3 (PK-3), MK-2M (PK-2M) and PKG-3 combines. The test proved that the "Karaganda-1M" with the described tools is fully acceptable for the conditions in the test seam, and it is cheaper in operation than other combines. Its drawback is the large unpropped space (14 square meter) because of the size of the caterpillar carriage. It managed 15° upward slope and 13° downward (comparing to a possible maximum of 5-7° with the PKG-3 with bucket loader). The combine as a whole and its individual components can be used for the development of a pilot series of larger combines for up to 7.6 m² face area single-track drifts and one for 15.7 m² double-track drift. There are 2 figures.



Card 4/6

一工工作化學和政府和政府的學術學

PAPERNYY, Yevgeniy Aleksandrovich; EYDEL'SHTEYN, Igor! Lazurevich; KRASITSKIY, Miroslav Stepanovich; KARMANOV, S., red.

[Proper temperature measurement] Pravil'noe izmerenie temperatur. Kaliningrad, Kaliningradskoe knizhnoe izd-vo, 1964. 136 p. (MIRA 17:11)

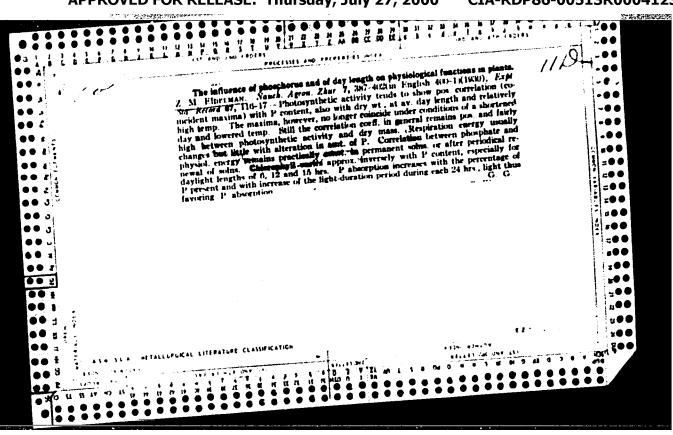
TERREHIN, K.; MYIML'MAN, Yu.

Using machines in constructing electric transmission lines. Sel'.stroi. 15 no.8:16-17 Ag '60. (MIRA 13:8)

1. Upravlyayushchiy Stavropol'skim stroitel'no-monotashnym trestom "Sel'elektrostroy" (for Terekhin). 2. Glavnyy
inshener Stavropol'skogo stroitel'no-montashnogo tresta
"Sel'elektrostroy" (for Dydel'max).

(Stavropol' Territory--Electric lines--Poles)

(Hoisting machinery)



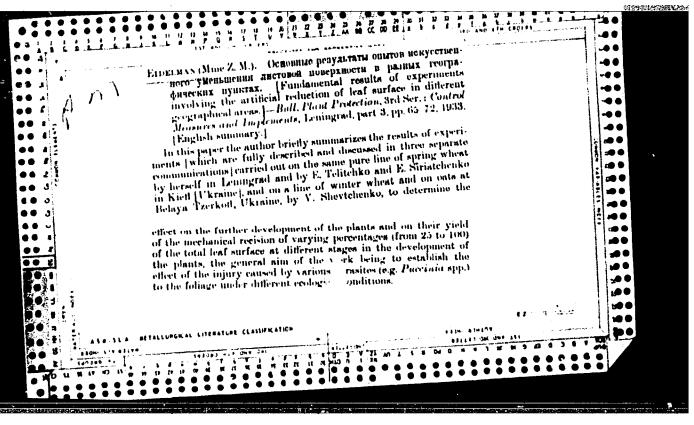
EYDEL'MAN, Z. M.

EYDELTIAN, Z. M. "Influence of Mechanical Reduction of Leaf Surface on the Growth and Development of Cultivated Plants in Connection with Methods for Estimating Diserse Infection, " <u>Trudy to Zaschite Restenii</u>, Seriia 7, no.3, 1033, pp.14-42. 423.92 1540.

So: SIRA S190-15, 15 Dec. 1953

"APPROVED FOR RELEASE: Thursday, July 27, 2000

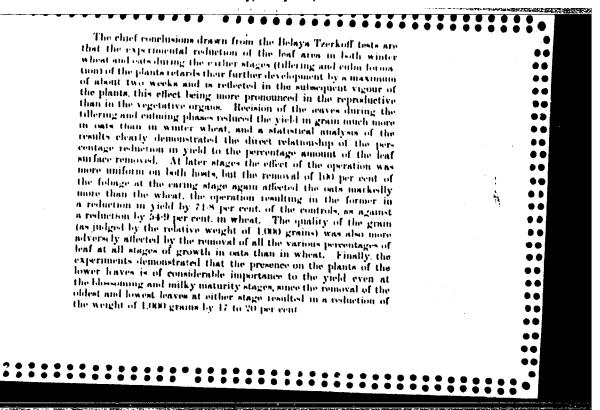
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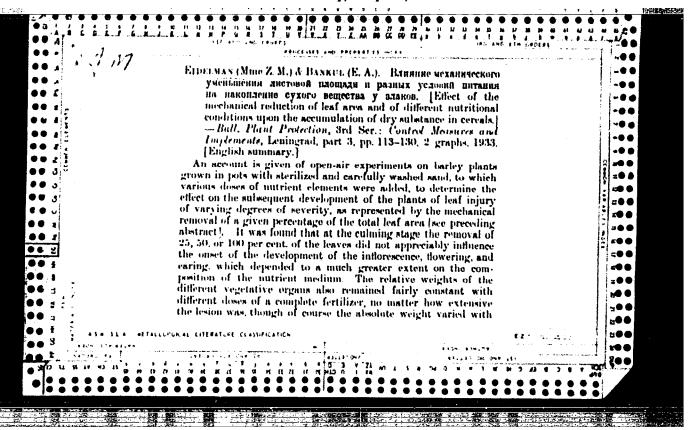


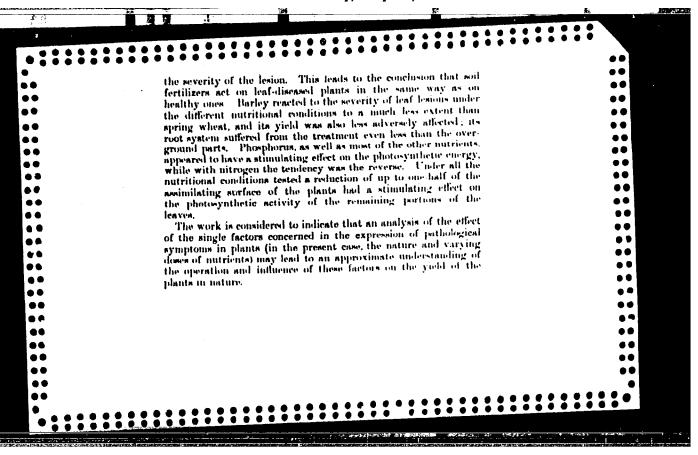
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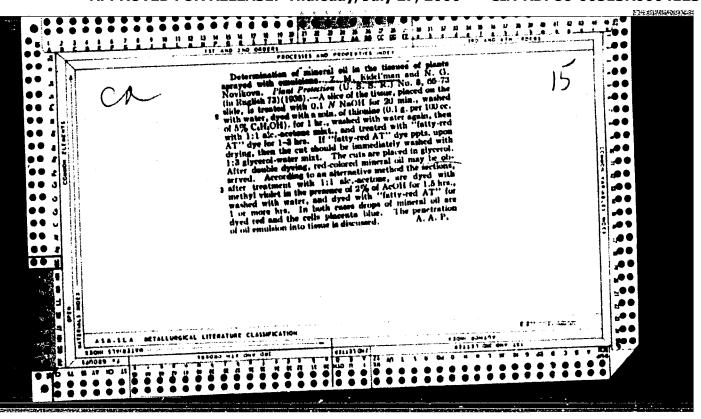


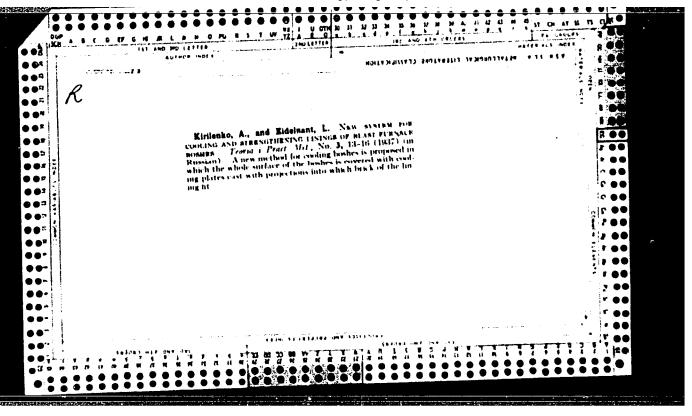
CIA-RDP86-00513R00041231

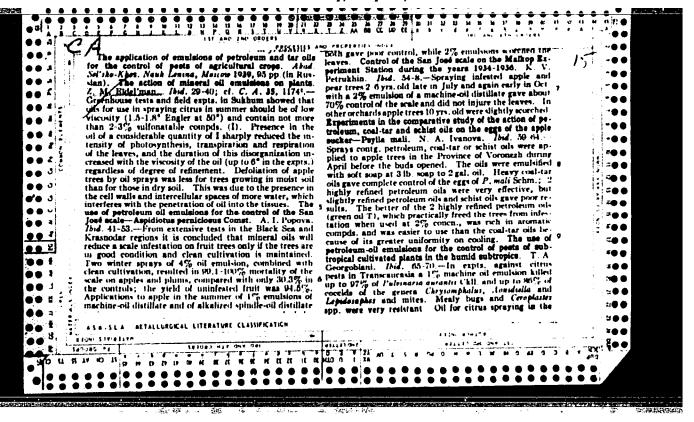
EYDELIMAN, Z. M.,

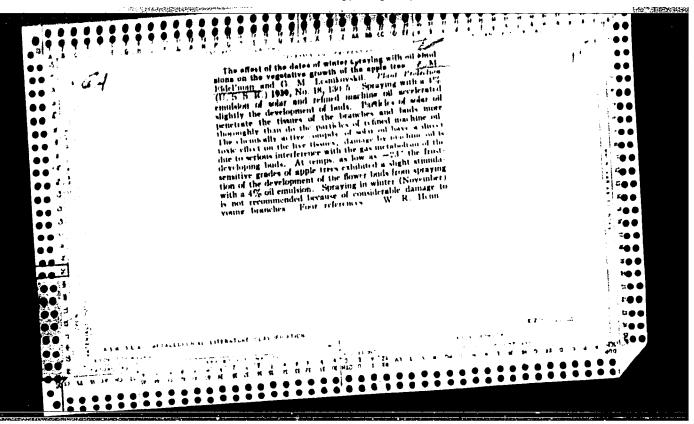
EYDEL MAN, Z. M., AND HANKUL, E. A. "Copyclological Evaluation of Leaven of Different Ages and Stages of Development of a Siven Plant." Trudy no Exachite Restenti, Seriia 3, no. 3, 1933, pp. 131-146. 423.92 1540.

So: SIRA S190-15, 15 Dec. 1953









Scientific work of the Department of Botany of the Kharkov State Pedagogical Institute. Bot.zhur.[Ukr.] 10 no.1:112-113 '53. (MIRA 6:8) (Ukraine--Botany) (Botany--Ukraine)

KONOVALOV, I.N.; EYDEL'MAN, Z.M.

V.N.Liubimenko's scientific work and the subsequent development of his theories. Trudy Bot.inst.Ser.4 no.13:7-12 '59.

(MIRA 13:3)

(Liubimenko, Vladimir Nikolaevich, 1873-1937)

(Plant physiology)

EYDEL'MAN, Z.M.; LITVINENKO, A.I.; SHESTOPALOVA, N.G.

Physiological study of heterosis in corn. Trudy Bot.
inst.Ser. 4 no.13:312-328 '59. (MIRA 13:3)
(Corn breeding) (Heterosis)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

147

CIA-RDP86-00513R00041231

KONOVALOV, I.H.; SAPOZHNIKOV, D.I.; EYDEL'MAN, Z.M.

Effect of Darwin's theory of evolution on the development of research in certain branches of plant physiology. Bot.

zhur. 44 no.11:1546-1552 N '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR, Leningrad.

(Plant physiology)

17(3) AUTHORS:

Sapozhnikov, D. I., Eydel'man, Z. M., SOV/20-127-5-54/58

Bazhanova, N. V., Popova, O. F.

TITLE:

The Inhibitory Effect of Hydroxylamine on the Light Reaction

in the Course of Xanthophyll Transformation

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 5, pp 1128-1131

(USSR)

ABSTRACT:

In the most recent papers the participation of carotenoids in the transfer of oxygen in the course of the photosynthesis is assumed (Refs 1-5). The content of violaxanthine was reduced at illumination whereas that of lutein increased. This difference was reduced in the dark. Sapozhnikov Krasov-skeya, and Mayevskaya (Ref 3) assumed an enzymatic nature of this mutual transformation of the two xanthophylls mentioned and the possible participation of this ferment system in the oxygen transfer. Furthermore it was proved that the violaxanthine formation was inhibited under anaerobic conditions (reaction in the dark) whereas the light reaction was not suppressed by the anaerobiosis. Since oxygen is transferred in the light reaction of the xanthophyll transformation it was important to investigate the inhibition conditions of this

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The Inhibitory Effect of Hydroxylamine on the Light SOV/20-127-5-54/58 Reaction in the Course of Xanthophyll Transformation

reaction. Hydroxylamine is a photosynthetic poison which acts as a specific inhibitor of the oxygen separation during the photosynthesis (Refs 6-9), Water weed (Elodea canadensis), i. e. the youngest shoot tips, 2 - 3 cm long, served as investigation object. After having been dried they were placed in boiling dishes with poison solutions of certain concentration. Figure 1 shows the results of a typical experimental series. A part of the boiling dishes with experimental- and control plants was exposed to the light of a 1000 watt lamp, the other one left in the dark. Various expositions (Fig 2) (2-120 minutes) in the poison solution and various poison concentrations (Fig 4) $(1.10^{-4} - 6.10^{-2} \text{mol})$ as well as the illumination intensity (Fig 3) were tested. The following conclusions are drawn from the results: (1) The light reaction of the xanthophyll transformation may be completely inhibited by certain concentrations $(4 \cdot 10^{-2} \text{mol})$. (2) The concentration of the inhibitor necessary for the inhibition of the light reaction increases with rising light intensity. (3) The assumption concerning the enzymatic character of the light

Card 2/3

The Inhibitory Effect of Hydroxylamine on the Light Reaction in the Course of Xanthophyll Transformation

SOV/20-127-5-54/58

reaction of the mutual transformation of xanthophylls as well as concerning a close connection between this system and the oxygen transfer in the course of the photosynthesis is confirmed. There are 4 figures and 15 references, 6 of which are Soviet.

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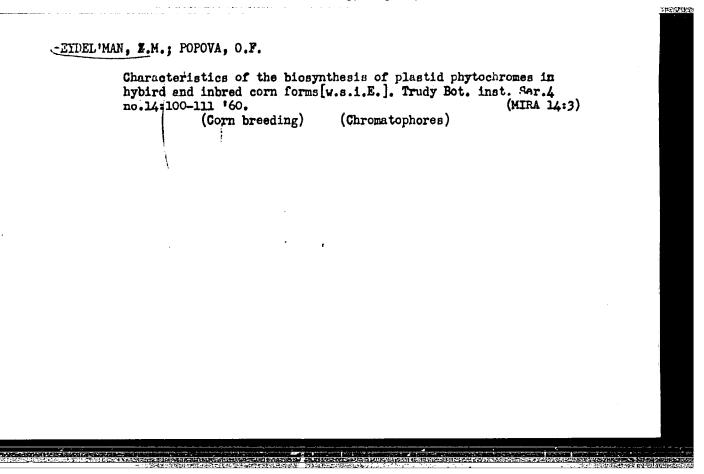
PRESENTED:

April 23, 1959, by A. I. Oparin, Academician

SUBMITTED:

March 16, 1959

Card 3/3



The role of gold as a measure of value in the imperialist era.

Den.i kred. 12 no.5:55-63 N'54.

(Gold)

(Gold)

"The crisis of the capitalist foreign exchange system". A.V.

Byreiskev.Reviewed by A.Bidel'nant, Den.i kred. 13 ns.11:56-63
N '55.

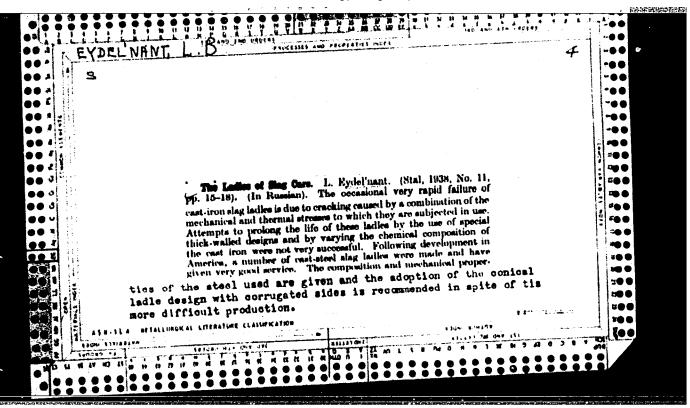
(Fereign exchange problem)

Bourgeois theories of discount policy during the general crisis of capitalism. Den.i kred. 14 no.1:45-53 Ja '56. (MLRA 9:5) (Discount)

EYDEL! HANT, Aleksandra Borisovna, doktor ekon. nauk,; BREGEL', E., prof., otv. red.; LOGOVINSKAYA, R., red. izd-va,; LEBEDEV, A., tekhn.red.

[Bourgeois theory of money, credit and finance in the general crisis of capitalism] Burzhuaznye teorii deneg, kredita i finansov v period obehchego krizisa kapitalizma. Moskva, Gosfinizdat, 1958.

(MIRA 11:12)



NIKOLAYEVSKIY, Ye.Ya., insh.; EYDEL NANT, L.B., inzh.; DAVYDOV, A.M., inzh.; SIMACHEV, L.V., red.; BATENCHUK, A.N., inzh., red.; IPATOV, P.P., inzh., red.; KRYLOV, V.A., inzh., red.; PKLESHUK, M.I., inzh., red.; PITERSKOV, N.I., red.; SHUBOV, L.B., red.

[Instructions for industrial safety measures in the assembly of technological equipment and piping] Instruktivnye ukazaniia po tekhnike bezopasnosti pri montazhe tekhnologicheskogo oborudovaniia i truboprovodov. Izd.2., perer. i dop. Moskva, TSentr. biuro tekhn.informatsii, 1959. 160 p. (MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo stroitel'stva. Glav-metallurgmontash. 2. Glavnyy inzhener Glavmetallurgmontazha Ministerstva stroitel'stva RSFSR (for Simachev).

(Industrial safety)

ROGANOV, D.Ya., inzh.; EYDEL'NANT, L.B., inzh.

Planning of organizations for mechanized assembly operations.

Nov. tekh. mont. i spets. rab. v stroi. 21 no.2:11-14 F 159.

(MIRA 12:1)

1.Proyektno-konstruktorskaya kontera Mekhanomontazhproyekta

Ministerstva stroitelstva RSFSR.

(Blast furnaces) (Cranes, derricks, etc.)

A 1 de la constitución de la con

ALEKSEYEV, Ye.K., insh.; IZGUR, R.M., insh.; LYUKE, Ye.P., insh.; NIKO-LAYEVSKIY, Ye.Ya., insh.; PIROGOV, A.M., insh.; RODIONOVA, R.G., insh.; TOYBIN, V.A., insh.; FREYDLIN, G.M., insh.; KHLYUPIMA, A.K., insh.; CHERNOV, D.L., insh.; EYDEL! NAMT, L.B., insh.; ZHMUR, N.S., insh., retsensent; Mu. YOV, G.A., insh., red.; TIKHAMOV, A.Ya., tekhn.red.

[Production and installation of pipe systems; reference manual]

[Production and installation of pipe systems; reference manual]
Isgotovlenie i montash tekhnologicheskikh truboprovodov; spravochnoe posobie. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.
lit-ry, 1960. 574 p.
(Pipe fitting)

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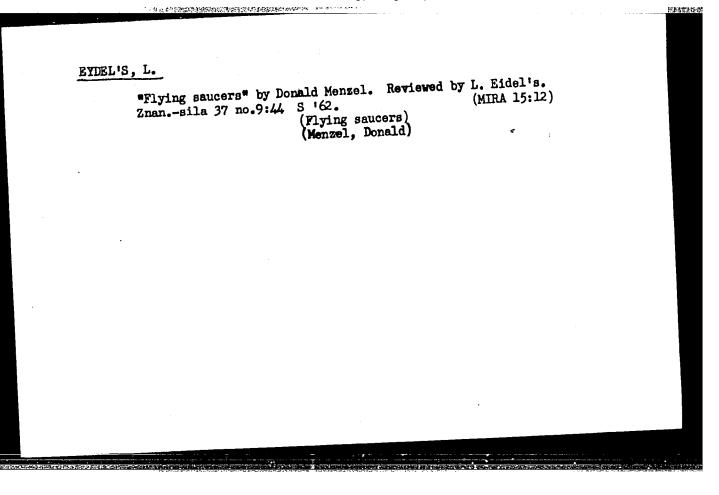
THE REPORT OF THE PROPERTY OF

SAZHIN, B.I.; EYDEL'NANT, M.P.

Electric conductivity of polymers. Part 4: Effect of dipole polarisation (polystyrene, poly-\rho-chlorostyrene, styrene-acrylonitrile copolymer. Vysokom.soed. 3 no.5:761-767 My 161. (MIRA 14:5)

1. Nauchno-issledovateliskiy institut polimerizatsionnykh plastmass.
(Styrene) (Acrylonitrile) (Polymers-Flectric properties)

EYDEL'S, L. "Incredible" tricks of conical optics. Tekh.mol. 30 (MIRA 15:12) no.10:37 '62. (Mirrors)



L 22246-66 IJP(c) EWP(j)/EWT(m) RM ACC NR: AP6006493 SOURCE CODE: UR/0138/65/000/010/0027/0029 AUTHOR: Paschanskaya, R. Ya.; Eydel'nant, N. L.; Smolyanitskiy, V. Z.; Gershenovich A. I.; Stefanovich, V. V.; Gal'braykh, I. Ye.; Alekseyeva, N. A.; Tikhonova, Zh. I. ORG: Scientific-Research Institute of Rubber and Latex Products (Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy); "Red Triangle" Plant (zavod "Krasnyy treugol'nik") TITLE: The use of p-alkylbenzylpyridinium chloride as a vulcanization catalyst for rubber mixtures SOURCE: Kauchuk i rezina, no. 10, 1965, 27-29 TOPIC TAGS: vulcanization, catalyst, butadiene styrene rubber, synthetic rubber, rubber chemical ABSTRACT: A cationactive pyridinium compound, p-alkylbenzylpyridinium chloride (katapin): (1) where R is an aliphatic radical containing 12-14 carbon atoms, was studied as a vulcanization catalyst. Katapin is a water-soluble dark-brown paste, now being produced on a semi-industrial basis. When large-scale industrial production is organized, katapin production costs will Z be close to those of captax, the least expensive vulcanization catalyst. Katapin is found to Card 1/2 UDC: 678.044.004.14

tandar omes c gent, s	d cate close is we	ase vulcanizates with higher strength properties than that produced by a alysts: captax, altax, and DFG. In <u>butadiene-styrene rubber mixtures</u> , in vulcanization activity to that of DFG. Katapin may be used as an include in combinations with captax, altax, and thiuram. Orig. art. has:	katapin lependent
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